# Center for Integrative Medicine: 2010 Wake Forest University Baptist Medical Center

#### **Definition**

"Integrative Medicine is the practice of medicine that reaffirms the importance of the relationship between practitioner and patient, focuses on the whole person, is informed by evidence, and makes use of all appropriate therapeutic approaches, healthcare professionals, and disciplines to achieve optimal health and healing."

The Consortium of Academic Health Centers for Integrative Medicine WFUBMC has been a member of the Consortium since 2005.

### 2010 Highlights

- Research
  - o Program Director for Research: Ed Shaw, MD
  - o Research Grants: \$30,051,940; N=111
  - Research Publications: 128 peer-reviewed publications by over 150 faculty
- Clinical
  - o Program Director for Nursing Services: Debbie Krueger, MSN, RN, NE-BC, CNRN
  - Program Director for Medical Services: Walt Curl, MD
- Education and Training
  - o Program Directors for Education and Training: Jeff Feldman, PhD and Jamie Ungerleider, PhD
  - Medical Students Elective and Interest Group: Katie Fitzgerald, Brielle Paolini (MD/PhD)
- Community Engagement and National Outreach Professional
  - eNewsletter: 13 issues sent to >1200 international recipients
  - Website: > 28,000 visits
  - o Presentations: N=139; over 17,000 Participants
  - Consortium of Academic Health Centers for Integrative Medicine: 11 WFUBMC representatives to working groups/committees; Dr. J. Feldman, new co-chair for Clinical Working Group
  - o International Society for Acupuncture Research (SAR) 2010 co-sponsor
  - o Media: 110 TV, radio, internet, and print stories
- ❖ Members: 116 from WFUBMC, WFU, and Community
- ❖ Library: > 700 books, CD's, and DVD's
- \* Retail: Gift shop sells faculty authored books, certificates for massage
- Honors and Awards:
  - Supporting Pillar of the Police Department: CareNet for presentations on PTSD, domestic violence, mental health to members of the SWAT, Domestic Violence Task Force and Rapid Response Team of Fayetteville Police Department, Fayetteville, NC.
  - Gold Star Standard from N.C. Prevention Partners (NCPP): for providing the highest standard of excellence for tobacco cessation programs offered to employees (WFUBMC).
  - Social Science Research Network (SSRN) Top Ten Award: King N, Coughlin C, Kemper KJ.
     When Doctors Become "Patients": Advocating a Patient-Centered Approach for Health Care
     Workers in the Context of Mandatory Influenza Vaccinations and Informed Consent. [Editorial]
     Wake Forest Law Review 2010; August; 45(5): 1551-1562. Wake Forest University Legal Studies
     Paper No. 1656648.
- Funding
  - Endowment from Guth, Taylor
  - Gift from Hopeman family
  - o Individual gifts

# 1. Funded Research

#### Overview (data from Office of Research)

Total Funded Research: \$30,051,940; Number Projects = 111

- 1.1 Biofield Therapy: \$428,258; N=2
- 1.2 Cancer: \$2,678,204; N=13
  - 1.2.1 Herbs and Dietary Supplements: \$2,047,829; N=6
  - 1.2.2 Lifestyle: [\$258,389]; N=3 1.2.3 Stress: \$630,375; N=4
- 1.3 Cultural Competency and Communication: \$458,681; N=5
- 1.4 Epidemiology and Health Services: \$1,269,026; N=4
- 1.5 Herbs and Dietary Supplements: \$3,669,190; N=22
- 1.6 Lifestyle: \$21,325,660; N=58
  - 1.6.1 Combination: \$6,348,929; N=20
  - 1.6.2 Environment: \$1,098,586; N=4
  - 1.6.3 Exercise and Fitness: \$7,042,404; N=13
  - 1.6.4 Mind-Body/Stress: \$5,852,970; N=17
  - 1.6.5 Nutrition and Diet: \$984,701; N=5
- 1.7 Research and Education: [\$150,000]; N=1
- 1.8 Women's Health: \$619,262; N=3
- 1.9 Other: See Section.

#### 1.1 Biofield Therapy: \$428,258

PI: Avis, N Source: NIH

**PI**: Tegeler, CH **Source**: s/Hopeman Pilot Funding **Total**: [\$35,000] **Term**: 3/1/2009 – 2/28/2010

Title: Physiological Effects of Healing Touch in Patients with Neurological or Stress-related Disorders

#### 1.2 Cancer: \$2,678,204; N=13

#### 1.2.1 Herbs and Dietary Supplements (Cancer): \$2,047,829; N=6

PI: Chen, Y Source: NCI

**Total:** \$1,487,769 **Term:** 7/1/2006 – 07/31/2011

**Title:** Mechanisms of Fish Oil Supplements in the Prevention of Cancer (P01 CA106 742-01A1)

PI: Chen, Y Source: NCI

**Total:** \$296,309 **Term:** 12/1/2009 – 11/30/2010

Title: Effects of Dietary Omega-3 Fatty Acids Akt Signaling in Prostate Cancer (R01 CA107668)

PI: Edwards, IJ Source: NCI

**Total**: \$190.843 **Term**: 9/23/2005 – 6/30/2010

Title: Regulation of Syndecan-1 by n-3 PUFA

PI: Edwards, IJ Source: Kulynych Interdisciplinary Cancer Research Fund

**Total:** \$36.355 **Term:** 7/1/2010 – 6/30/2011

Title: Regulation of Syndecan-1 by n-3 PUFA

**PI**: Tallant, E **Source**: Nature's Pearl **Total**: \$36,553 **Term**: 2/1/2009 – 02/28/2010

Title: Effect of Muscadine Grape Seed and Grape Skin Extract on the Growth of Human Cancer Cells

**PI**: Yang, Q **Source**: WFUSM Venture Grant **Total**: [\$20,000] **Term**: 11/1/2010 – 10/31/2011

Title: Early Supplementation of Enteral Lipid with Microlipid and Fish Oil in Infants with Enterostomies

#### 1.2.2 Lifestyle (Cancer): [\$258,389]

**PI**: Boeving, A **Source**: WFUBMC/CCC **Total**: [\$35,000] **Term**: 5/1/2009 – 4/30/2010

Title: The TOUCH Project: Reducing Distress and Promoting Quality of Life via Caregiver Massage of Children

Undergoing Treatment for Cancer.

PI: Danhauer, SC Source: WFUBMC/TSI (K12 Award)

**Total**: [\$203,389] **Term**: 5/1/08 – 4/30/2011

Title: Yoga during Breast Cancer Treatment: Establishing Community-Based Partnerships

PI: Danhauer, SC Source: WFUBMC, CCC, CIM (Hopeman)

Title: Yoga and Brain Cancer: A Feasibility Study

## 1.2.3 Stress (Cancer): \$630,375; N=4

PI: Kulik, G Source: DOD PCRP
Total: \$125,000/year direct Term: 5/1/2008 – 5/31/2011
Title: Epinephrine-Induced Anti-Apoptotic Signaling in Prostate Cancer (PC073548)

PI: Kulik, G Source: NCI

**Total**: \$227,345/year direct (average) **Term**: 7/1/2008 – 6/30/2013

Title: Stress-Activated Signaling in Prostate Cancer (Stress Hormones Influence on Prostate Tumor Growth)

(1R01CA118329)

PI: Kulik, G Source: NCI

**Total**: \$40,996/year direct **Term**: 7/23/2008 – 4/30/2013 **Title**: Stress-Activated Signaling in Prostate Cancer (Grant Supplement) (R01 S1)

PI: Kulik, G Source: NCI

**Total**: \$237,034/year direct **Term**: 6/1/2009 – 5/31/2011

Title: Stress-Activated Signaling in Prostate Cancer (R01 S2, Collaborative project on design of prostate-

targeted PI3K inhibitors.)

#### 1.3 Cultural Competency and Communication: \$458,681; N=5

PI: Calles, J Source: NC Health & Wellness Trust Fund Commission

**Total**: \$93,652 **Term**: 7/1/209 – 6/30/2010

Title: Latino Lay Health Advisors (LHA): A Coalition Initiative

PI: Crandall, SJ Source: NHLBI

**Total**: \$92,859 **Term**: 8/1/2005 – 7/31/2010

Title: Advancing Cultural Competency Education and Professional Training to Improve Medical Education

PI: Crandall, SJ Source: Association of American Medical Colleges/CDC

**Total**: \$3,000 **Term**: 9/1/2008 – 8/30/2009

Title: Medical Students' Perceptions of Residents', Attendings, and Their Own Cultural Competency

PI: Easterling, D Source: Duluth Superior Area Community Foundation

Total: \$4.000 Term: 6/3/2008 – 6/2/2010

Title: DSACF "Speak Your Peace Evaluation Project"

PI: Marion, GS Source: HRSA

**Total**: \$265,170 **Term**: 7/1/2007 – 6/30/2010

Title: Sensitive Health Literacy Curriculum

#### 1.4 Epidemiology and Health Services: \$1,269,026; N=4

PI: Arcury, T

Total: \$482,992

Term: 9/29/2006 – 9/29/2010

Title: Ethnic Variation in CAM Use and Health Self-Management among Rural Older

Adults (R01 AT003635)

**PI**: Kemper, KJ **Source**: s/University of Oregon **Total**: \$4,500 **Term**: 9/1/2010 – 8/31/2013

Title: Use and Impact of CAM in Children

PI: Edwards, IJ Source: NCI

**Total**: \$190,843 **Term**: 9/1/2009 – 8/31/2014

Title: Dietary & Physical Activity Patterns of Latino Farmworker Children

PI: Quandt, S Source: NIA

**Total**: \$590,691 **Term**: 3/1/2007 – 2/28/2010

Title: Rural Elders' Diabetes Self-Management: Development of a Common Sense Model Inventory

#### 1.5 Herbs and Dietary Supplements: \$3,669,190; N=22

PI: Assimos, DG Source: NIDDK

**Total**: \$297,332 **Term**: 4/1/2007 – 3/31/2012

**Title**: Dietary Oxalate and Kidney Stone Formation

PI: Beavers, K Source: NIA

**Total**: \$52,106 **Term**: 1/1/2011 – 12/31/2011

Title: Role of Metabolic Syndrome and Inflammation of Physical Function in Elderly (F32-AG039186)

**PI**: Burke, G **Source**: s/University of Pittsburgh **Total**: \$18,251 **Term**: 8/1/2009 – 7/31/2010

**Title**: Gingko Biloba Prevention Trial in Older Individuals (U01AT0162)

PI: Chilton, F
Source: NIH/NCCAM
Total: \$1,579,082
Term: 9/1/2010 – 8/31/2011
Title: The Wake Forest and Harvard Center for Botanical Lipids (P50 AT002782)

PI: Chilton, F Source: WFUSM Venture Grant (IRSC)

PI: Edwards. IJ Source: NCI

**Total**: \$190,843 **Term**: 9/23/2005 – 6/30/2010

Title: Regulation of Syndecan 1 in by n-3 PUFA

PI: Espeland, M Source: s/University of South Dakota

**Total**: \$87,095 **Term**: 1/1/2009 – 12/31/2010

Title: Omega-3 Fatty Acid Biomarkers and Cognitive Decline in WHIMS

 PI: Greven, CM
 Source: s/EMMES Corporation

 Total: \$6,813
 Term: 1/1/2006 – 12/31/2012

Title: Age-Related Disease Study II (AREDS II): A Multi-Center, Randomized Trial of Lutein, Zeaxanthin, and

Omega-3 Fatty Acids in Age Related Macular Degeneration

PI: Houston, D Source: NIA

**Total**: \$102,630 **Term**: 9/1/2008 – 8/31/2011

Title: Vitamin D Status, Related Gene Polymorphisms, and Physical Function in Elders (K01 AG030506)

PI: Houston, D
Source: WFU TSI, Pepper Center, CIM (Hopeman)
Total: [\$50,000]
Term: 5/1/10 – 4/30/12

Title: Improving Vitamin D Status in Home-Bound Elders

PI: Kritchevsky, S Source: NIA

**Total**: \$526,926 **Term**: 9/30/2007 – 8/31/2010

Title: Vitamin D, Falls, Fractures, and Function in Community-Dwelling Older Adults (1 R01 AG029364)

PI: Maund, S Source: American Foundation for Aging Research

**Total**: \$3,500 **Term**: 3/1/2008 – 11/1/2010

Title: Elucidating a Mechanism of Vitamin D-Induced Differentiation of Prostatic Progenitor Cells

PI: Parks, J Source: NHLBI

**Total**: \$178,808 **Term**: 4/1/2009 – 3/31/2010

Title: Integrative Lipid Metabolism, Inflammation, and Chronic Diseases

PI: Parks, J Source: NHLBI

**Total**: \$179,690 **Term**: 4/1/2010 – 3/31/2011 **Title**: Integrative Lipid Metabolism, Inflammation, and Chronic Diseases (T32 HL091797)

PI: Shea. M Source: AHA

**Total**: \$50,000 **Term**: 7/1/2009 – 6/30/2010

Title: Iron Status: A Pathway Analysis in Multiple Ethnicities

PI: Shively, BM Source: s/University of California – Irvine

**Total**: \$31,888 **Term**: 8/14/2006 – 7/31/2010

Title: Iron Status: A Pathway Analysis in Multiple Ethnicities

PI: Shea, M Source: AHA

**Total**: \$50,000 **Term**: 7/1/2010 – 6/30/2011

Title: Vitamin K and the Progression Coronary Artery Calcification (AHA #09CRP2070013)

**PI**: Tallant, E . **Source**: Nature's Pearl **Total**: \$50,594 **Term**: 2/15/2010 – 2/14/2011

Title: Molecular Mechanisms of the Inhibition of Human Breast Cancer Cell Growth by Muscadine Grape Seed

and Grape Skin Extracts (Nature's Pearl 2 (NP2)) (35492)

**PI**: Tallant, E **Source**: Nature's Pearl **Total**: \$78,998 **Term**: 2/15/2010 – 2/14/2011

Title: NP3- Inhibition of Human Breast Tumor Growth in Athymic Mice by Muscadine Grape Seed and Grape

Skin Extracts (35494)

PI: Wibley, A Source: NIH

**Total**: \$35,980 **Term**: 7/1/2008 – 9/29/2011

Title: Echium Oil Modulates Macrophage Inflammation by Promoting Alternative Action (F31 AT004883-01)

**PI**: Williamson, JD **Source**: s/University of Pittsburgh **Total**: \$128,279 **Term**: 8/1/2009 – 7/31/2010

Title: Ginkgo Biloba Prevention Trial in Older Individuals (U01AT0162)

PI: Williamson, JD Source: s/University of California – San Diego

**Total**: \$20,375 **Term**: 1/1/2007 – 6/30/2010

Title: Effects of Docosahexanoic Acid (DHA) in slowing the Progression of Alzheimer's Disease

# 1.6 Lifestyle (including environment, exercise and fitness, mind-body/stress, nutrition and diet): \$22,136,571; N=60

#### 1.6.1 Combination: \$6,348,929; N=20

PI: Bell, R Source: NIH

**Total**: \$222,000 **Term**: 9/30/2010 – 8/31/2011

Title: The Native Proverbs 31 Health Project

PI: Bertoni, A Source: NHLBI

**Total**: \$222,000 **Term**: 9/15/2008 – 7/31/2010

**Title**: Translating Dietary Trials into the Community (R21 HL091303)

PI: Ambrosius, W Source: s/Wake Forest University Total: \$95,677 Term: 8/1/2005 – 4/30/2010

Title: Cooperative Lifestyle Intervention Program

 PI: Bell, R
 Source: s/UNC Chapel Hill

 Total: \$46,918
 Term: 4/1/2008 – 3/31/2011

Title: Nutrition and Metabolic Status in Diabetic Youth: SEARCH Nutrition Ancillary Study

PI: Goff Jr, D Source: NIDDK

**Total**: \$592,266 **Term**: 8/1/2006 – 7/31/2010

Title: Translating Research into Prevention of Diabetes (TRIP Diabetes) (1R18 DK069901-01A2)

PI: Foy, C Source: NIH

**Total**: \$491,237 **Term**: 8/18/2009 – 5/31/2014

Title: Prevention of Weight Gain in Young Adults

PI: Grzywacz, J Source: NICHD

Title: Dietary & Physical Activity Patterns of Latino Farm worker Children (R01 HD059855)

PI: Grzywacz, J Source: NICHD

**Total**: \$321,379 **Term**: 12/1/2008 – 11/30/2010 **Title**: Women's Eating & Physical Activity Habits: The Influence (R01 HD56360)

PI: Espeland, M Source: NHLBI

**Total**: \$393,261 **Term**: 8/18/2009 – 5/31/2014

Title: SNAP: Preventing Weight Gain in Young Adults (U01 HL090875)

PI: Kemper, KJ
Source: Kohlberg Foundation
Total: \$50,000
Term: 7/1/2009 – 6/30/2010

Title: Healthy Lives, Healthy Minds (GTS# 32545)

PI: Kritchevsky, S Source: s/University of Florida Total: \$1,477,284 Term: 9/1/2010 – 8/31/2011

Title: Lifestyle Interventions and Independence (LIFE) Study

PI: Kritchevsky, S Source: NIA

**Total**: \$713,300 **Term**: 9/30/2009 – 6/30/2014 **Title**: Intentional Weight Reduction and Physical and Function (1R01 AG033087-01A1)

**PI**: Lang, W **Source**: s/University of Pittsburgh **Total**: \$29,027 **Term**: 9/1/2007 – 6/30/2011

Title: The effect of Stepped-Care Approach to Long-Term Weight Loss

PI: Schwartz, RSource: s/University of MichiganTotal: \$36,106Term: 4/1/2008 – 1/31/2010

Title: BMI2-Brief Motivational Interviewing for BMI Reduction

PI: Skelton, J Source: Kohl's

**Total**: \$104,344 **Term**: 9/1/2009 – 9/31/2010

Title: The Kohl's Family Collaborative (GTS 35089)

**PI**: Skelton, J **Source**: The Duke Endowment **Total**: \$175,104 **Term**: 7/1/2008 – 6/30/2011

Title: A Proposal to Expand Brenner FIT

PI: Skelton, J Source: Kate B. Reynolds Charitable Trust

**Total**: \$188,364 **Term**: 1/1/2009 – 12/31/2010

Title: A Proposal to Expand Brenner FIT

PI: Skelton, J Source: Blessings Project Foundation

**Total**: \$2,875 **Term**: 7/1/2008 – 6/30/2010

Title: FIT Fun Night

PI: Spangler, JG Source: NCI

Title: Nutrition, Exercise, and Weight Management Lifestyle Intervention (NEW Lifestyle) Curriculum

(R25 CA117887-S1)

PI: Spangler, JG Source: NCI

**Total**: \$319,166 **Term**: 8/1/2007 – 7/31/2011

Title: Nutrition, Exercise, and Weight Management Lifestyle Intervention (NEW Lifestyle) Curriculum (R25

Ca117887)

#### 1.6.2 Environment: \$1,098,586; N=4

PI: Bischoff, W Source: CDCP

**Total**: \$654,728 **Term**: 9/1/2010 – 8/31/2011

Title: Airborne Influenza UV Inactivation and Proximity Detection Study

**PI:** Hutchinson, K **Term:** 1/1/2009 – 3/5/2010 **Amount:** [\$5,000] **Source:** s/Caryl Guth

Title: Ambient Therapy Efforts that Potentially Offer Sustainable Self-Care Opportunities for Adolescents

Coping with Psychiatric and Behavioral Health Disorders

**PI**: Hutchinson, K **Term**: 1/1/2009 – 3/5/2010

**Amount:** [\$3,000] **Source:** s/Brenner Children's Hospital Nursing Admin. **Title:** Ambient Therapy Efforts that Potentially Offer Sustainable Self-Care Opportunities for Adolescents

Coping with Psychiatric and Behavioral Health Disorders

PI: Quandt, S Source: NIOSH

**Total**: \$443,858 **Term**: 9/1/2009 – 8/31/2010

**Title:** Reducing Pesticide Exposure in Farmworkers

#### 1.6.3 Exercise and Fitness: \$7,042,404; N=13

PI: Avis, N Source: NIH/NCCAM Total: \$592.000 Term: 5/1/2009 – 4/30/2012

Title: Effectiveness of Integral Yoga on Objective and Subjective Menopausal Hot Flashes (1R21AT004234-

01A2)

**PI**: Avis, N **Source**: NIH/NCCAM **Total**: \$294,988 **Term**: 9/30/2009 – 2/29/2011

Title: Effectiveness of Integral Yoga on Objective and Subjective Menopausal Hot Flashes (1R21AT004234-

01S1)

PI: Beech, BM Source: s/Vanderbilt University
Total: \$10,773 Term: 9/1/2009 – 4/30/2010
Title: A New Instrument to Comprehensively Assess Sedentary Behaviors (VUMC36047)

PI: Espeland, M Source: NIDDK

**Total**: \$2,309,201 **Term**: 9/1/1999 – 7/31/2013

Title: Look AHEAD: Action for Health in Diabetes Data Coordinating Center (U01, DK57136)

PI: Espeland, M Source: NCE

 PI: Fernandez, AZ
 Source: WFUSM Venture Grant

 Total: [\$19,860]
 Term: 7/1/2010 – 6/30/2011

Title: Effect of Training and Physical Function Following Bariatric Surgery

PI: Foy, C Source: NIH

**Total**: \$144,679 **Term**: 7/1/2009 – 6/30/2010 **Title**: Prosocial Behavior and Exercise among Older Adults (R21 AG 27413)

 PI: Hemby, SE
 Source: s/University of Virginia

 Total: \$15,012
 Term: 7/1/2010 – 6/30/2011

Title: Exercise as an Intervention Strategy for Cocaine Addiction in Males and Females (DA254716)

 PI: Miller, ME
 Source: s/University of Florida

 Total: \$1,703,866
 Term: 9/1/2009 – 8/31/2015

Title: Physical Exercise to Prevent Disability (Life-M) (AG022376)

PI: Nicklas, B Source: NIAID

**Total**: \$345,719 **Term**: 7/1/2006 – 8/31/2010 **Title**: Exercise Training and Inflammatory Risk Factor for Disability (R01 AG027529)

PI: Nicklas, B Source: NIA

Title: Loss of Fat Tissue and Functional Responses to Exercise in Older, Obese Adult (R01 AG020583-06A2)

PI: Nicklas, B Source: s/Wake Forest University Total: \$227,423 Term: 9/1/2006 – 6/30/2011

Title: Intensive Dietary Restriction with Exercise in Arthritis (R01 AR052528)

PI: Nicklas, B Source: NHLBI

**Total**: \$156.894 **Term**: 9/30/2009 – 7/31/2011

Title: Intervening On Spontaneous Physical Activity to Prevent Weight Regain in Women (R21 HL097252-01)

#### 1.6.4 Mind-Body/Stress: \$5,852,970; N=17

PI: Brenes, G Source: NIMH

**Total**: \$1,530,000 **Term**: 2/5/2010 – 12/31/2014

Title: An RCT of CBT-Telephone for Late-life Generalized Anxiety Disorder (1R01MH083664-01A2)

**PI**: Brenes, G **Source**: WFUSM Venture Grant **Total**: [\$20,000] **Term**: 8/1/2009 – 7/31/2010

Title: A Translational Approach to the Assessment and Treatment of Generalized Anxiety Disorder

PI: Coghill, RC Source: NIDA

**Total**: \$333,356 **Term**: 8/5/2005 – 6/30/2010

Title: Dynamic Mechanisms of Pain Modulation

PI: Coghill, RC Source: MLI

**Total**: \$15,000 **Term**: 1/1/2010 – 12/31/2010 **Title**: The Effects of Meditation on Pain Perception: An fMRI Analysis (34926)

PI: Daunais, JB Source: NIAAA

**Total**: \$51,983 **Term**: 7/15/2007 – 3/31/2010

Title: Measuring Alcohol and Stress Interactions with Structural and Perfusion MRI (R01 AA016748-S1-ARRA)

**PI**: Hatcher, B **Source**: Duke Endowment **Total**: \$103,219 **Term**: 7/1/2008 – 6/30/2011

Title: Congregational Mental Health Literacy Project

**PI**: Hemby, S **Source**: AstraZeneca **Total**: \$199,994 **Term**: 8/5/2009 – 1/04/2011

Title: Behavioral and Biochemical Assessment of Quetiapine in a Non-Human Primate Model of Stress-Induced

Depression

PI: Houle T Source: NINDS

**Total**: \$318,000 **Term**: 5/15/2009 – 4/30/2014

Title: Moderating Influence of Ovarian Hormones on Physiological Arousal and Headache (R01NS065257)

PI: Jones, S Source: NIAAA

**Total**: \$270,366 **Term**: 9/1/2009 – 8/31/2011

Title: Ethanol, Stress and Dopamine (U01 AA014091-S1)

PI: McCool, BA Source: NIAAA

**Total**: \$340,100 **Term**: 2/1/07 – 01/31/2010

Title: Ethanol & Anxiety: Cellular Mechanisms

PI: McCool, BA Source: NIAAA

**Total**: \$150,000 **Term**: 2/1/07 – 01/31/2010

Title: Genetic Regulation of the Ethanol/Anxiety Interaction: Neurobiological Mechanisms

**PI**: Lang, J . **Source**: CIM (Hopeman) **Total**: \$1,930 **Term**: 2/1/2010 – 2/31/2011

Title: The Use of Guided Imagery to Facilitate Relaxation Prior to Total Joint Surgery and Healing After Surgery

PI: Nader, MA . Source: NIDA

**Total**: \$1,517,534 **Term**: 9/1/1996 – 2/28/2015 **Title**: Social Stress: Vulnerability to Cocaine Abuse in Monkeys (R37 DA010584)

PI: Shively, CA Source: NIH

**Total**: \$222,000 **Term**: 7/1/2009 – 3/31/2010

Title: Cellular and Molecular Basis of Hippocampal Atrophy in Depressed Female Monkeys (R21 MH086731)

PI: Shively, CA Source: NHLBI

**Total**: \$454.424 **Term**: 7/1/2007 – 6/30/2011

Title: Depression and Coronary Artery Atherosclerosis in Premenopausal Primates (R01 HL087103)

PI: Treadway, SR Source: s/University of North Carolina-Chapel Hill

**Total**: \$22,720 **Term**: 5/1/2010 – 4/30/2011

Title: Stress Responses as Prospective Predictors of Girls' Suicidality and Self-Injury (R01-HD055342)

PI: Yosipovitch, G Source: NIAMS

**Total**: 322,344 **Term**: 9/1/2008 – 6/30/2011 **Title**: Skin-Brain Mechanisms of Pruritus in Health and Diseases (R01 AR055902)

#### 1.6.5 Nutrition and Diet: \$984,701; N=5

PI of WF Consortium: Appt, SE Source: NICHD R21 HD060944

**Total**: \$87,135 **Term**: 7/1/10 – 06/30/12

Title: Effects of Diet-Induced Obesity on Reproduction in Vervet Monkeys (Chlorocebus aethiops)

PI: Assimos, DG Source: NIDDK

**Total**: \$294,359 **Term**: 4/1/2007 – 3/31/2011

Title: Dietary Oxalate and Kidney Stone Formation (R01 DK062284)

**PI**: Cline, JM **Source**: NIH/NCCAM **Total**: \$580,432 **Term**: 7/1/2005 – 6/30/2010

Title: Soy and Estrogen Interactions in the Breast

**PI**: Sergeant, S **Source**: NIH/NCCAM **Total**: [\$20,000] **Term**: 11/1/01 – 03/31/10

Title: Wake Forest Center for Botanical Lipids entitled: Marine Microalgae as Source of Polyunsaturated Fatty

Acids

PI: Voytko, ML Source: s/University of Wisconsin-Madison

**Total**: \$22,775 **Term**: 5/1/2006 – 1/31/2011

Title: Dietary Restriction and Aging in Rhesus Monkeys

#### 1.7 Research and Education: [\$150,000]

PI: Kemper, KJ Source: Hank and Lynn Hopeman Foundation, Inc.

**Amount:** [\$150.000] **Term:** 1/1/2010 – 12/31/2010

Title: Center for Integrative Medicine (See Section 1.9 Other)

# 1.8 Women's Health: \$619,262

PI: Clarkson, T Source: NIH

**Total**: \$43,000 **Term**: 8/2/2009 – 7/31/2010

Title: Symposium - Depressive Symptom and Cognitive Complaints in the Menopausal Transition: Scientific

Update and Clinical Translation

**PI**: Kaplan, J **Source**: NIH/NHLBI **Total**: \$447,197 **Term**: 1/1/5 – 6/30/2011

Title: Soy, Life Stage, Stress and Atherosclerosis in Females

PI: Vitolins, M Source: NHLBI

**Total**: \$129,065 **Term**: 3/15/93 – 9/14/10

Title: Vanguard Clinical Centers for Clinical Trial and Observational Study for the Women's Health Initiative –

East

#### 1.9 Other: \$29,987

 PI: Kemper, KJ
 Source: s/University of Alberta

 Total: \$29,987
 Period: 4/1/11 – 3/31/14

Title: Comparative Cost-Effectiveness Study of Inpatient Pediatric Integrative Medicine